ELSEVIER

Physiology & Behavior 82 (2004) 933–940

PHYSIOLOGY & BEHAVIOR

CONTENTS
VOLUME 82, 2004

CONTENTS VOLUME 82 NUMBER 1 2004

FESTSCHRIFT IN HONOR OF GERARD P. SMITH

GUEST EDITORS:
RANDALL R. SAKAI
STEPHEN C. WOODS
TIMOTHY H. MORAN

Preface
SAKAI, R.R., S.C. WOODS AND T. MORAN 1

2-Mercaptoacetate does not stimulate chow intake in periweanling rats
SWITHERS, S.E., A. DOERFLINGER AND T. MOWERY 3

The ontogeny of the postingestive inhibitory effect of peptone in rats
WELLER, A. AND L. TSITOLOVSKYA 11

Glucagon-like peptide 1 (GLP-1) and eating
GUTZWILLER, J.-P., L. DEGEN, L. HEUSS AND C. BEGLINGER 17

Is susceptibility to weight gain characterized by homeostatic or hedonic risk factors for overconsumption?
BLUNDELL, J.E. AND G. FINLAYSON 21

Suppression of food intake by GI fatty acid infusions: Roles of celiac vagal afferents and cholecystokinin
COX, J.E., G.R. KELM, S.T. MELLER AND A. RANDICH 27

Estradiol: A rhythmic, inhibitory, indirect control of meal size
ECKEL, L.A. 35

Sucrose sham feeding decreases accumbens norepinephrine in the rat
HAJNAL, A. AND R. NORGREN 43

Eating provides important physiological signals for satiety and drinking
KRALY, F.S. 49

Interaction of TRH and CCK in the satiation of alcohol intake
KULKOSKY, P.J., V.J. WISE, S.S. BRANDT AND K.J. CHAVEZ 53

Opioids as agents of reward-related feeding: A consideration of the evidence
LEVINE, A.S. AND C.J. BILLINGTON 57

Nociceptin/orphanin FQ acts as a functional antagonist of corticotropin-releasing factor to inhibit its anorectic effect
CICCOCIOPPO, R., A. CIPPITELLI, D. ECONOMIDOU, A. FEDELI AND M. MASSI 63

Gastric satiation is volumetric, intestinal satiation is nutritive
POWLEY, T.L. AND R.J. PHILLIPS 69

The vagus nerve and thirst
ROWLAND, N.E. 75

Sensory neurobiological analysis of neuropeptide modulation of meal size
SCHWARTZ, G.J. AND A.V. AZZARA 81

The relationship between food reward and satiation revisited
SCLAFANI, A. AND K. ACKROFF 89

doi:10.1016/S0031-9384(04)00376-2

A 5-HT_{2C} agonist elicits hyperactivity and oral dyskinesia with hypophagia in rabbits
SIMANSKY, K.J., K.D. DAVE, B.R. INEMER, D.M. NICKLOUS, J.M. PADRON, V.J. ALOYO AND A.G. ROMANO 97

Valid across-group comparisons with labeled scales: The gLMS versus magnitude matching
BARTOSHUK, L.M., V.B. DUFFY, B.G. GREEN, H.J. HOFFMAN, C.-W. KO, L.A. LUCCHINA, L.E. MARKS, D.J. SNYDER AND J.M. WEIFFENBACH 109

The epidemic of obesity and changes in food intake: The Fluoride Hypothesis
BRAY, G.A. 115

Behavioral models of binge-type eating
CORWIN, R.L. AND A. BUDA-LEVIN 123

Energy density and portion size: Their independent and combined effects on energy intake
KRAL, T.V.E. AND B.J. ROLLS 131

Stress, hormones and disease
NATELSON, B.H. 139

Molecular and cellular correlates of the developmental acquisition of mechanisms modulating ingestive behavior
CHUA JR., S.C. 145

The paradox of satiation
COLLIER, G. AND D.F. JOHNSON 149

Studying ingestive behavior with Gerry Smith
DAVIS, J.D. 155

On Gerard P. Smith's scientific character and thought
GEARY, N. 159

Lifetime influence of one year with Gerry Smith
JESTE, D.V. 167

The adventures of a "different" pair
MCHUGH, P.R. 171

Gut peptides in the control of food intake: 30 years of ideas
MORAN, T.H. 175

Gustation as a factor in the ingestion of sweet and fat emulsions by the rat
SMITH, J.C. 181

Lessons in the interactions of hormones and ingestive behavior
WOODS, S.C. 187

The last word
SMITH, G.P. 191

CONTENTS VOLUME 82 NUMBERS 2, 3

Brief communication

Animal models for the study of the effect of prolonged stress on lactation in rats
LAU, C. AND C. SIMPSON 193

Articles

Intracerebroventricular administration of chicken motilin does not induce hyperphagia in meat-type chicks
BUNGO, T., H. UEDA, T. KITAZAWA, T. TANEIKE AND M. FURUSE 199

Behavioral and physiological adaptation to repeated chair restraint in rhesus macaques
RUYS, J.D., S.P. MENDOZA, J.P. CAPITANIO AND W.A. MASON 205

The anxiogenic video-recorded Stroop Color–Word Test: Psychological and physiological alterations and effects of diazepam
TEIXEIRA-SILVA, F., G.B. PRADO, L.C.G. RIBEIRO AND J.R. LEITE 215

Ethanol intake and motor sensitization: The role of brain catalase activity in mice with different genotypes
CORREA, M., C. SANCHIS-SEGURA, R. PASTOR AND C.M.G. ARAGON 231

Hindbrain catecholamine neurons mediate consummatory responses to glucoprivation
HUDSON, B. AND S. RITTER 241

Estradiol-mediated increases in the anorexia induced by intraperitoneal injection of bacterial lipopolysaccharide in female rats
GEARY, N., L. ASARIAN, J. SHEAHAN AND W. LANGHANS 251

Subdiaphragmatic vagal deafferentation fails to block the anorectic effect of hydroxycitrate
LEONHARDT, M., B.J. HRUPKA AND W. LANGHANS 263

Modifications of a field method for fecal steroid analysis in baboons
BEEHNER, J.C. AND P.L. WHITTEN 269

A simple method for short-term controlled anesthesia in newborn mice
DROBAC, E., E. DURAND, V. LAUDENBACH, J. MANTZ AND J. GALLEGO 279

Daily activity patterns of a nocturnal and a diurnal rodent in a seminatural environment
REFINETTI, R. 285

Cardiovascular effects of morning nutrition in preadolescents
PIVIK, R.T. AND R.A. DYKMAN 295

Taste avoidance induced by wheel running: Effects of backward pairings and robustness of conditioned taste aversion
SALVY, S.-J., W.D. PIERCE, D.C. HETH AND J.C. RUSSELL 303

Dose-dependent cocaine place conditioning and D1 dopamine antagonist effects in male Japanese quail
AKINS, C.K., N. LEVENS, R. PRATHER, B. COOPER AND T. FRITZ 309

How habitual caffeine consumption and dose influence flavour preference conditioning with caffeine
TINLEY, E.M., P.J. DURLACH AND M.R. YEOMANS 317

Odor discrimination assessment with an automated olfactometric method in a prosimian primate, *Microcebus murinus*
JOLY, M., B. MICHEL, B. DEPUTTE AND J.-M. VERDIER 325

Licking rate adaptations to increased mandibular weight in the adult rat
CARVALHO, T.C. AND G.E. GERSTNER 331

Blunted cortisol rhythm is associated with learning impairment in aged hamsters
CAIN, S.W., I. KARATSOREOS, N. GAUTAM, Y. KONAR, D. FUNK, R.J. McDONALD AND M.R. RALPH 339

Effects of nonsaponin fraction of red ginseng on learning deficits in aged rats
KURIMOTO, H., H. NISHIJO, T. UWANO, H. YAMAGUCHI, Y.-M. ZHONG, K. KAWANISHI AND T. ONO 345

Anxiety and aggression associated with the fermentation of carbohydrates in the hindgut of rats
HANSTOCK, T.L., E.H. CLAYTON, K.M. LI AND P.E. MALLET 357

Evaluation of functional asymmetry in rats with dose-dependent lesions of dopaminergic nigrostriatal system using elevated body swing test
BALUCHNEJADMOJARAD, T. AND M. ROGHANI 369

Differential effects on somatic and reflex development by chronic clomipramine treatment
DE SOUZA, S.L., M.I. NOGUEIRA, T.C.B. DE JESUS DEIRÓ, F.M.M. DE CASTRO, C.M. DA SILVA, M.C. DA SILVA, L.O. DE LIRA, E.C. AZMITIA AND R.M. DE CASTRO 375

Gait dynamics in trisomic mice: Quantitative neurological traits of Down syndrome
HAMPTON, T.G., M.R. STASKO, A. KALE, I. AMENDE AND A.C.S. COSTA 381

Dissociation of ethanol and saccharin preference in *fos*B knockout mice
KORKOSZ, A., P. KOLOMANSKA, K. KOWALSKA, A. ROGOWSKI, K. RADWANSKA, L. KACZMAREK, P. MIERZEJEWSKI, A. SCINSKA, W. KOSTOWSKI AND P. BIENKOWSKI 391

Amount of ingested custard dessert as affected by its color, odor, and texture
DE WIJK, R.A., I.A. POLET, L. ENGELEN, R.M. VAN DOORN AND J.F. PRINZ 397

Increased grooming behavior in mice lacking vitamin D receptors
KALUEFF, A.V., Y.-R. LOU, I. LAAKSI AND P. TUOHIMAA 405

Acid taste thresholds assessed by conditioned taste aversion and two-bottle preference in rats
SCALERA, G. 411

Age at group formation alters behavior and physiology in male but not female CD-1 mice
BARTOLOMUCCI, A., A. CHIRIELEISON, L. GIOIOSA, G. CERESINI, S. PARMIGIANI AND P. PALANZA 425

Associations between taste genetics, oral sensation and alcohol intake
DUFFY, V.B., J.M. PETERSON AND L.M. BARTOSHUK 435

Influence of pellet size on rat's hoarding behavior
CHARRON, I. AND M. CABANAC 447

Food restriction in pregnant rat-like hamsters (*Cricetulus triton*) affects endocrine, immune function and odor attractiveness of male offspring
LIANG, H., J. ZHANG AND Z. ZHANG 453

Responses of PROP taster groups to variations in sensory qualities within foods and beverages
PRESCOTT, J., J. SOO, H. CAMPBELL AND C. ROBERTS 459

The role of CCK_2 receptors in energy homeostasis: Insights from the CCK_2 receptor-deficient mouse
WEILAND, T.J., N.J. VOUDOURIS AND S. KENT 471

Effects of distraction and stress on delayed matching-to-place performance in aged rats
SEIF, G.I., K.M. CLEMENTS AND P.E. WAINWRIGHT 477

Effect of a β-3 agonist on food intake in two strains of rats that differ in susceptibility to obesity
WHITE, C.L., Y. ISHIHARA, T.L. DOTSON, D.A. HUGHES, G.A. BRAY AND D.A. YORK 489

Perinatal hypothyroidism effects on step-through passive avoidance task in rats
DARBRA, S., F. BALADA, M.A. MARTÍ-CARBONELL AND A. GARAU 497

Effects of postnatal social isolation on hormonal and immune responses of pigs to an acute endotoxin challenge
TUCHSCHERER, M., E. KANITZ, B. PUPPE, A. TUCHSCHERER AND B. STABENOW 503

Effect of selection for behavior on pituitary–adrenal axis and proopiomelanocortin gene expression in silver foxes (*Vulpes vulpes*)
GULEVICH, R.G., I.N. OSKINA, S.G. SHIKHEVICH, E.V. FEDOROVA AND L.N. TRUT 513

The effects of neurotoxins on web-geometry and web-building behaviour in *Araneus diadematus* CL.
HESSELBERG, T. AND F. VOLLRATH 519

Release of peppermint flavour compounds from chewing gum: Effect of oral functions
HAAHR, A.-M., A. BARDOW, C.E. THOMSEN, S.B. JENSEN, B. NAUNTOFTE, M. BAKKE, J. ADLER-NISSEN AND W.L.P. BREDIE 531

Running-wheel activity and body composition in golden hamsters (*Mesocricetus auratus*)
GATTERMANN, R., R. WEINANDY AND P. FRITZSCHE 541

Seasonal changes in metabolic and temperature responses to cold air in humans
VAN OOIJEN, A.M.J., W.D. VAN MARKEN LICHTENBELT, A.A. VAN STEENHOVEN AND K.R. WESTERTERP 545

Tolerance to unfamiliar conspecifics varies with social organization in female African mole-rats
GANEM, G. AND N.C. BENNETT 555

The chronobiology of the Natal mole-rat, *Cryptomys hottentotus natalensis*
HART, L., N.C. BENNETT, B. MALPAUX, C.T. CHIMIMBA AND M.K. OOSTHUIZEN 563

Enhancement revisited: The effects of multiple depletions on sodium intake in rats vary with strain, substrain, and gender
LESHEM, M., A. KAVUSHANSKY, J.-M. DEVYS AND S. THORNTON 571

Amygdaloid kindled seizures induce weight gain that reflects left hemisphere dominance in rats
BHATT, R., S. BHATT, P. RAMESHWAR AND A. SIEGEL 581

Corrigendum
Corrigendum to "Effects of parametric feeding manipulations on behavioral performance in macaques" [Physiol. Behav. 81 (2004) 59–70]
TAFFE, M.A. 589

Articles

Effects of chronic activity wheel running and imipramine on masculine copulatory behavior after olfactory bulbectomy
CHAMBLISS, H.O., J.D. VAN HOOMISSEN, P.V. HOLMES, B.N. BUNNELL AND R.K. DISHMAN 593

Visual discrimination learning in dwarf goats and associated changes in heart rate and heart rate variability
LANGBEIN, J., G. NÜRNBERG AND G. MANTEUFFEL 601

CER to discrete and contextual stimuli: effects of stimulus modality depend on strain of rat
NORMAN, C. AND H.J. CASSADAY 611

Changes in jaw muscles activity with age: effects on food bolus properties
MIOCHE, L., P. BOURDIOL, S. MONIER, J.-F. MARTIN AND D. CORMIER 621

Overlapping litters and reproductive performance in the domestic rabbit
MARTÍNEZ-GÓMEZ, M., M. JUÁREZ, H. DISTEL AND R. HUDSON 629

Effects of estrogens during embryonal development on crowing in the domestic fowl
MARX, G., A. JURKEVICH AND R. GROSSMANN 637

Study on the correlation of the autonomic nervous system responses to a stressor of high discomfort with personality traits
LEBLANC, J., M.B. DUCHARME AND M. THOMPSON 647

Discrimination of social odors and their locations: role of lateral entorhinal area
MAYEAUX, D.J. AND R.E. JOHNSTON 653

Cholecystokinin-induced satiety is mediated through interdependent cooperation of CCK-A and 5-HT3 receptors
HAYES, M.R., D.M. SAVASTANO AND M. COVASA 663

No difference in satiety or in subsequent energy intakes between a beverage and a solid food
ALMIRON-ROIG, E., S.Y. FLORES AND A. DREWNOWSKI 671

The effect of social rank on the physiological response during repeated stressful handling in Zebu cattle (*Bos indicus*)
SOLANO, J., F. GALINDO, A. ORIHUELA AND C.S. GALINA 679

Exposure to extremely low-frequency electromagnetic fields improves social recognition in male rats
VÁZQUEZ-GARCÍA, M., D. ELÍAS-VIÑAS, G. REYES-GUERRERO, A. DOMÍNGUEZ-GONZÁLEZ, L. VERDUGO-DÍAZ AND R. GUEVARA-GUZMÁN 685

Thermal sensation and comfort in women exposed repeatedly to whole-body cryotherapy and winter swimming in ice-cold water
SMOLANDER, J., M. MIKKELSSON, J. OKSA, T. WESTERLUND, J. LEPPÄLUOTO AND P. HUTTUNEN 691

Do perfume additives termed human pheromones warrant being termed pheromones?
WINMAN, A. 697

Hypercholesterolemic diet applied to rat dams protects their offspring against cognitive deficits. Simulated neonatal anoxia model
BOHR, I. 703

Dehydroepiandrosterone-sulfate did not mitigate sickness behavior in mice
CHEN, J. AND R.W. JOHNSON 713

Central respiratory pauses, sighs, and gross body movements during sleep in children
FUKUMIZU, M. AND J. KOHYAMA 721

Interhemispheric difference in emotional response without awareness
KIMURA, Y., A. YOSHINO, Y. TAKAHASHI AND S. NOMURA 727

When identical twins differ: an analysis of intrapair differences in the spontaneous eating behavior and attitudes of free-living monozygotic twins
DE CASTRO, J.M. 733

Personality, manual preference and neuroendocrine reactivity in hirsute subjects
MARTIN MARTINS, J., S. DO VALE, A. TRINCA, C. SALDANHA AND J. MARTINS E SILVA 741

Stress induces CRF release in the paraventricular nucleus, and both CRF and GABA release in the amygdala
COOK, C.J. 751

CONTENTS VOLUME 82 NUMBER 5

Articles

Effects of environmental enrichment on males of a docile inbred strain of mice
MARASHI, V., A. BARNEKOW AND N. SACHSER 765

Devazepide fails to reverse the inhibitory effect of interleukin-1β on food intake in female rats
BUTERA, P.C., C.F. BRIFFA AND E.E. WHITAKER 777

Interaction of microwaves and a temporally incoherent magnetic field on spatial learning in the rat
LAI, H. 785

Effects of midbrain lesions on lordosis and ultrasound production
FLOODY, O.R. AND J.F. DEBOLD 791

Is there a parotid-salivary reflex response to fat stimulation in humans?
HODSON, N.A. AND R.W.A. LINDEN 805

Pregnancy-related changes in behavior and cardiac activity in primiparous pigs
MARCHANT-FORDE, R.M. AND J.N. MARCHANT-FORDE 815

Analysis of the cold-water restraint procedure in gastric ulceration and body temperature
LANDEIRA-FERNANDEZ, J. 827

Reduced violent behavior following biochemical therapy
WALSH, W.J., L.B. GLAB AND M.L. HAAKENSON 835

Can energy drinks reduce the depressor effect of ethanol? An experimental study in mice
FERREIRA, S.E., I.M. HARTMANN QUADROS, Á.A. TRINDADE, S. TAKAHASHI, R.G. KOYAMA AND M.L.O. SOUZA-FORMIGONI 841

Chronic fatigue syndrome impairs circadian rhythm of activity level
TYRON, W.W., L. JASON, E. FRANKENBERRY AND S. TORRES-HARDING 849

Serotonin involvement in the electroacupuncture- and moxibustion-induced gastric emptying in rats
SUGAI, G.C.M., A. DE O. FREIRE, A. TABOSA, Y. YAMAMURA, S. TUFIK AND L.E.A.M. MELLO 855

Cannabinoid $(CB)_1$ receptor antagonist, AM 251, causes a sustained reduction of daily food intake in the rat
CHAMBERS, A.P., K.A. SHARKEY AND H.S. KOOPMANS 863

Contribution of anal scent gland and urinary odorants to mate recognition in the ferret
CLOE, A.L., S.K. WOODLEY, P. WATERS, H. ZHOU AND M.J. BAUM 871

Bottle choice tests for oxidized oil in rats
KIMURA, F., A. IIDA, Y. ENDO AND K. FUJIMOTO 877

Accelerated senescence prone mouse-8 shows early onset of deficits in spatial learning and memory in the radial six-arm water maze
CHEN, G.-H., Y.-J. WANG, X.-M. WANG AND J.-N. ZHOU 883

Effects of etifoxine on stress-induced hyperthermia, freezing behavior and colonic motor activation in rats
VERLEYE, M. AND J.-M. GILLARDIN 891

Depressive symptoms and taste reactivity in humans
SCINSKA, A., H. SIENKIEWICZ-JAROSZ, W. KURAN, D. RYGLEWICZ, A. ROGOWSKI, E. WROBEL, A. KORKOSZ, A. KUKWA, W. KOSTOWSKI AND P. BIENKOWSKI 899

Shy and bold great tits (*Parus major*): Body temperature and breath rate in response to handling stress
CARERE, C. AND K. VAN OERS 905

Thermal dependence of chemical assessment of predation risk affects the ability of wall lizards, *Podarcis muralis*, to avoid unsafe refuges
AMO, L., P. LÓPEZ AND J. MARTÍN 913

Predominance of clockwise swimming during rest in Southern Hemisphere dolphins
STAFNE, G.M. AND P.R. MANGER 919

Book review

Chronobiology: Biological timekeeping
KARATSOREOS, I.N. AND R. SILVER 927

Corrigendum

Corrigendum to "Differential effects on somatic and reflex development by chronic clomipramine treatment" [J. Physiol. Behav. 82 (2004) 375–379]
LOPES DE SOUZA, S., M.I. NOGUEIRA, T.C.B. DE JESUS DEIRÓ, F.M.M. DE CASTRO, C.M. DA SILVA, M.C. DA SILVA, L.O. DE LIRA, E.C. AZMITIA AND R.M. DE CASTRO 931

Contents of Volume 82 933

Author Index of Volume 82 941

Keyword Index of Volume 82 945